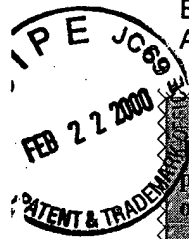


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Sasisekharan, et al.
 Serial No: 09/384,959
 Filed: August 27, 1999
 For: RATIONALLY DESIGNED HEPARINASES DERIVED
 FROM HEPARINASE I AND II
 Examiner: Unassigned
 Art Unit: 1643



01-1045
 #6
 41.00



THE ASSISTANT COMMISSIONER FOR PATENTS
 WASHINGTON, D.C. 20231

Sir:

Transmitted herewith are the following documents:

- ☒ Information Disclosure Statement
- ☒ Form 1449 and References Cited
- ☒ Return Receipt Postcard

If the enclosed papers are considered incomplete, the U.S. Patent and Trademark Office is respectfully requested to contact the undersigned at (617)720-3500, Boston, Massachusetts.

If any fee is required, please charge to the account of the undersigned, Deposit Account No. 23/2825. A duplicate of this sheet is enclosed.

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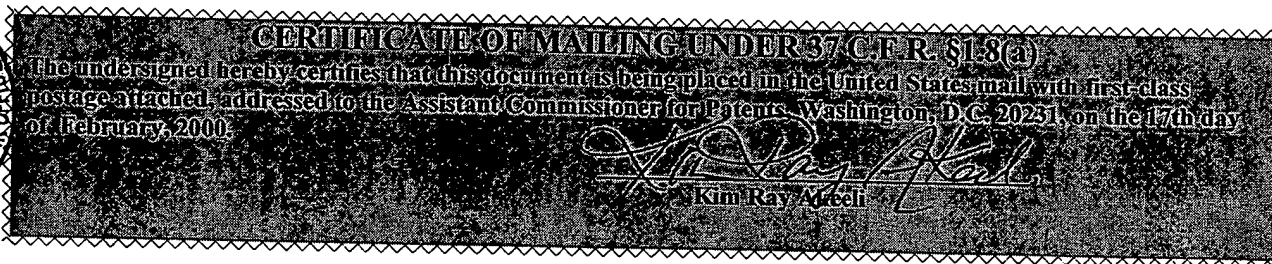
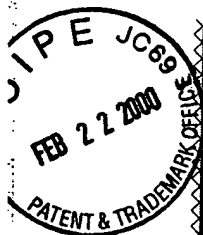
By: Helen C. Lockhart
 Helen C. Lockhart, Registration No. 39,248
 Wolf, Greenfield & Sacks, P.C.
 600 Atlantic Avenue
 Boston, MA 02210
 Tel. (617)720-3500

Docket No. M0656/7046
 Dated: February 17, 2000
 NDD

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Assistant Commissioner for Patents
Washington, D.C. 20231

**STATEMENT FILED PURSUANT TO THE DUTY OF
DISCLOSURE UNDER 37 CFR §§1.56, 1.97 AND 1.98**

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, the Applicants request consideration of this Information Disclosure Statement.

Compliance with 37 C.F.R. §1.97

This Information Disclosure Statement has been filed before the filing date of a first office action, therefore there is no fee due.

Information Cited

The Applicants hereby make of record in the above-identified application the information listed on the attached form PTO-1449 (modified). The order of presentation of the references should not be construed as an indication of the importance of the references.

Other Information

The Applicants hereby make the following additional information of record in the above-identified application:

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The following is a related pending U.S. non-provisional applications which does not appear on the 1449 form.

Serial No.

Filing Date

09/066,481

October 30, 1996

Remarks

A copy of each of the above-identified information is enclosed unless otherwise indicated on the attached form PTO-1449 (modified). It is respectfully requested that:

1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
2. The enclosed form PTO-1449 be signed by the Examiner to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application;
3. The citations for the information be printed on any patent which issues from this application.

By submitting this Information Disclosure Statement, the Applicants make no representation that a search has been performed, of the extent of any search performed, or that more relevant information does not exist.

By submitting this Information Disclosure Statement, the Applicants make no representation that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b).

By submitting this Information Disclosure Statement, the Applicants make no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

Notwithstanding any statements by the Applicants, the Examiner is urged to form his own conclusion regarding the relevance of the cited information.

An early and favorable action is hereby requested.

Respectfully submitted,

By: 

Helen C. Lockhart, Registration No. 39,248
Wolf, Greenfield & Sacks, P.C.
600 Atlantic Avenue
Boston, MA 02210
Tel. (617)720-3500

Docket No. M0656/7046
Dated: February 17, 2000

LIST OF PATENTS AND PUBLICATIONS FOR APPLICATION'S
INFORMATION DISCLOSURE STATEMENT

Sasisekharan et al.

FILING DATE: August 27, 1999

GROUP: 1643

U.S. PATENT DOCUMENTS

Exam Init	Ref Des	Document No.	Date	Name	Class	Sub Class	FILING DATE If Appropriate
	A1	4,281,108	07/28/81	Fussi	536	21	
	A2	4,745,105	05/17/88	Griffin et al.	514	56	
	A3	4,757,056	07/12/88	Van Gorp et al.	514	54	
	A4	4,942,156	07/17/90	Foley et al.	514	56	
	A5	4,990,502	02/05/91	Lormeau et al.	514	56	
	A6	5,010,063	04/23/91	Piani et al.	514	56	
	A7	5,039,529	08/13/91	Bergendal et al.	424	630	
	A8	5,106,734	04/21/92	Nielsen	435	84	
	A9	5,152,784	10/06/92	Tsilibary	623	1	
	A10	5,169,772	12/08/92	Zimmerman et al.	435	232	
	A11	5,204,323	04/20/93	Findlay et al.	514	2	
	A12	5,252,339	10/12/93	Cristofori et al.	424	479	
	A13	5,262,325	11/16/93	Zimmermann et al.	435	269	
	A14	5,290,695	03/01/94	Morikawa et al.	435	232	
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	A16	5,474,987	12/12/95	Cohen et al.	514	56	
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	A26	5,808,021	09/15/98	Holme et al.	536	21	
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	A28	5,919,693	07/06/99	Su et al.	435	252.3	
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	A34	5,619,421	4/8/97	Venkataraman et al.	346	496	
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	A40	4,373,023	2/8/83	Langer, et al.	435	2	
	A41	4,341,869	7/27/82	Langer, Jr. et al.	435	232	

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B2	EP 0 557 887 A2	02/18/93	Opocrin S.p.A.			
B3	WO 93/19096	09/30 93	Cancer Research Campaign Techn., Ltd.			
B4	WO 94/21689	09/29/94	Cancer Research Campaign Techn., Ltd.			
B5	WO 97/16556	05/09/97	Massachusetts Institute of Technology			
B6	PCT/US96/17310	10/30/96	PCT Search Report			
B7	WO93/08289	04/29/93	Massachusetts Institute of Technology			

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(Including Author, Title, Date, Pertinent Pages, Publication, Etc.)

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C2	Robert J. Linhardt, Ph.D. et al., "Production and Chemical Processing of Low Molecular Weight Heparins," <i>Seminars in Thrombosis and Hemostasis</i> , Vol. 25, Suppl. 3, 1999, pp. 5-16
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C34	Alderman, C., et al., "Continuous Subcutaneous Heparin Infusion for Treatment", 1995, 29:710-713
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